EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L31	65	L23 and L21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:30
L30	40	L23 and L20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:30
L29	6	L23 and L19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:30
L28	22	L23 and L18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:29
L27	23	L23 and L17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:29
L26	26	L23 and L16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:29
L25	101	L23 and L15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:29
L24	5	L23 and L14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:29
L23	300	((agent)near5 (collaborat$5)) and (virtual$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:28
L22	18	((agent)near5 (collaborat$5)) and (virtual$5) and (authenticat$5) and (public near3 key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:28

EAST Search History

L13	50	((agent)near5 (collaborat$5)) and (trust)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:24
L21	41311	("705"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:21
L20	34001	("707"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:21
L19	15472	("380"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:21
L18	103217	("379"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:21
L17	96295	("370"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:21
L16	6242	("719"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:21
L14	5755	("718"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:21
L15	44139	("709"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 09:20
L12	3	((agent)near5 (collaborat$5)) and (trust) near4 (engine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:38
L11	202	((agent)near5 (collaborat$5)) and (role function) and ((communication) near5 (channel link pipe))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:36

EAST Search History

S3	3	((agent)near5 (collaborat$5)) near5 ((rule policy attribute) same (role function)) and ((communication) near5 (channel link pipe))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:23
S78	0	(agents) near4 (on) near4 (demand) and (KQML)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:17
S76	5	(agents) near4 (demand) and (KQML)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/26 08:16
S72	48	(assign$5 allocat$5 designat$5) adj2 (channel) adj2 (application)	US-PGPUB; USPAT	OR	ON	2006/04/26 08:16
S37	32	((distribut$5) near15 (copy adj right$5)) and agent	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:16
L10	5	(agents) near4 (demand) and (KQML)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:16
L9	61	(assign$5 allocat$5 designat$5) adj2 (channel) adj2 (application)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:16
L8	230	(assign$5 allocat$5 designat$5) adj2 (channel) adj2 (application program)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:15
L7	186	(assign$5 allocat$5 designat$5) adj2 (channel) adj2 (application program)	US-PGPUB; USPAT	OR	ON	2006/04/26 08:15
L6	1	10/900409	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:05
L5	2	09/812826	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:05
L4	1	09/988566	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:04
L3	1	10/235756	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:02
L2	2	"6317438".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/26 08:01

EAST Search History

S80	4	(assign$5) near10 (role) near10 (agents) and (KQML)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/14 09:53
S79	0	(dynamic$5) near10 (assign$5) near10 (role) near10 (agents) and (KQML)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/14 09:53
S77	5	(agents) near4 (demand) and (KQML)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/14 09:52
S75	2	("5734897" | "5890146").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/14 09:47
S74	508	(agent) near4 collaborat$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/14 08:44
S21	2	"6144989".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/14 08:42
S73	2	"6513059".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 11:18
S39	2	"6144989".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 11:18
S70	2267	(assign$5 allocat$5 designat$5) near5 (channel) near5 (application program)	US-PGPUB; USPAT	OR	ON	2005/04/01 12:20
S69	0	(assign$5 allocat$5 designat$5) near5 ((multi-media adj processor) (multi-processor)) near5 (channel) near5 (application program)	US-PGPUB; USPAT	OR	ON	2005/04/01 12:20
S67	2	"719"/$.ccls. and (KQML)and (virtual near3 agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/01 10:00
S64	16	(KQML)and (virtual near3 agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/01 09:59
S66	7	"719"/$.ccls. and (KQML)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/01 09:57
S65	7	"719"?$.ccls. and (KQML)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/01 09:57

EAST Search History

S63	80	(KQML)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/01 09:56
S62	0	(virtual)ADJ3 (COMMUNICATION ADJ5 CHANNEL) ADJ5 (broker)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/01 08:45
S61	0	(virtual)ADJ3 (COMMUNICATION ADJ CHANNEL) ADJ5 (broker)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/01 08:43
S56	0	(virtual)ADJ3 (COOMUNICATION ADJ CHANNEL) ADJ (agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/01 08:42
S59	201	virtual adj communication adj channel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:50
S58	51	(agent) near10 (collaborat$5) AND (VIRTUAL) near3 (agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:34
S2	424	(agent) near10 (collaborat$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:33
S57	3	(virtual)ADJ3 COMMUNICATION ADJ3 CHANNEL ADJ3 (agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:30
S55	1895944	(virtual)ADJ3 (COOMUNICATION ADJ CHANNEL)(agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:29
S54	7	(virtual)ADJ3 (agent) same (role responsibility) same (rule policy attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:29
S53	16	(virtual)ADJ3 (agent) same (role function responsibility) same (rule policy attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:25
S52	31	(virtual) near5 (agent) same (role function responsibility) same (rule policy attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:22
S47	0	(virtual) near5 (agent) adj (architecture) same (role function responsibility) same (rule policy attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:12

EAST Search History

S51	13	(agent) adj (architecture) and (VC)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:01
S50	289	(agent) adj (architecture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:01
S49	1	(virtual) near5 (agent) adj (architecture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:00
S48	1	(virtual) near5 (agent) adj (architecture) and (role function responsibility) and (rule policy attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 16:00
S19	0	709/202.ccls. and (agent) adj (architecture) same (role function responsibility) same (rule policy attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 15:58
S46	2	"6144989".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 15:04
S43	27	"380"/$.ccls. and (agent) same(authenticat$5) same ((electronic digital) adj (signature)) same (public adj key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 11:39
S42	4	713/201.ccls. and (agent) same(authenticat$5) same ((electronic digital) adj (signature)) same (public adj key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 11:39
S41	2703	713/201.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 11:36
S40	3	"6513059".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/22 10:52
S38	60	(distribut$5) near15 (copy adj right$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 15:26
S36	0	(Agent) near5 (distribut$5) near15 (copy adj right$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 15:21
S35	0	(Agents) near5 (distribut$5) near15 (copy adj right$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 15:21

EAST Search History

S34	0	(Agents) near (distribut$5) near15 (copy adj right$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 15:21
S33	23	(virtual) near5 (private) near5 (community)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 15:19
S32	66	(agent) same(authenticat$5) same ((electronic digital) adj (signature)) same (public adj key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:58
S31	202	(agent) adj (authenticat$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:48
S30	1037	(agent) near5 (authenticat$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:24
S29	22	trust adj engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:22
S28	0	((mobile intelligent static local) adj (agent))and (trust adj engine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:18
S7	255	((mobile intelligent static local) adj (agent awit)) near5 (architecture makeup component gut)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:18
S27	33	(rule policy guide) adj (based driven) adj (agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:12
S26	111	(rule policy guide) adj (based driven) near3 (agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:12
S25	244	(rule policy guide) near3 (based driven) near3 (agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:12
S24	98	learning adj agent	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 14:11
S23	0	Adapative adj agent	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:58

EAST Search History

S22	2	"6260059".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:34
S20	0	709/202.ccls. and ((agent) adj (architecture) same (role function responsibility) same (rule policy attribute))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:21
S14	0	719/317.ccls. and (agent) adj (architecture) same (role function responsibility) same (rule policy attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:20
S18	40	719/317.ccls. and ((communicat$5)near2 (channel link pipe))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:19
S17	130	719/317.ccls. and (communicat$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:14
S16	0	719/317.ccls. and (virtual adj communicat$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:14
S15	136	719/317.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:13
S13	11	(agent) adj (architecture) same (role function responsibility) same (rule policy attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 13:06
S12	12	(agent) adj (architecture) same (role function responsibility) same (rule policy guide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 12:54
S11	238	(agent) adj (architecture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 12:48
S10	0	(awit) adj (architecture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 12:48
S9	238	(agent awit) adj (architecture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 12:48
S8	36	((mobile intelligent static local) adj (agent awit)) adj (architecture makeup component gut)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 12:47

EAST Search History

S6	77	((agent)near5 (collaborat$5)) and ((rule policy attribute) near10 (role function))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 12:37
S5	137	((agent)near5 (collaborat$5)) and ((rule policy attribute) same (role function))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 09:20
S4	3	((agent)near5 (collaborat$5)) near5 ((rule policy attribute) same (role function))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 09:19
S1	210	gnutella	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 08:50

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1 Role-based access control on the web

Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(331.03 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

2 Algorithm 825: A deep-cut bisection envelope algorithm for fixed points

Spencer Shellman, K. Sikorski

September 2003 **ACM Transactions on Mathematical Software (TOMS)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(703.10 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We present the BEDFix (Bisection Envelope Deep-cut Fixed point) algorithm for the problem of approximating a fixed point of a function of two variables. The function must be Lipschitz continuous with constant 1 with respect to the infinity norm; such functions are commonly found in economics and game theory. The computed approximation satisfies a residual criterion given a specified error tolerance. The BEDFix algorithm improves the BEFix algorithm presented in Shellman and Sikorski [2002] by ut ...

Keywords: Fixed points, economics, game theory, nonlinear partial differential equations

3 Algorithm 824: *CUBPACK*: a package for automatic cubature; framework description

Ronald Cools, Ann Haegemans

September 2003 **ACM Transactions on Mathematical Software (TOMS)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(111.14 KB) Additional Information: full citation, abstract, references, citings, index terms, review

CUBPACK aims to offer a collection of re-usable code for automatic n-dimensional ($n \geq 1$) numerical integration of functions over a collection of regions, i.e., quadrature and cubature. The current version allows this region to consist of a union of n-simplices and n-parellellepids. The framework of CUBPACK is described as well as its user interface. The functionality of several well known routines is embedded. New features include integration algorithms using the & ...

Keywords: Automatic integration, cubature, quadrature

4 Algorithm 784: GEMM-based level 3 BLAS: portability and optimization issues

Bo Kågström, Charles van Loan

September 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(154.52 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This companion article discusses portability and optimization issues of the GEMM-based level 3 BLAS model implementations and the performance evaluation benchmark. All software comes in all four data types (single- and double-precision, real and complex) and are designed to be easy to implement and use on different platforms. Each of the GEMM-based routines has a few machine-dependent parameters that specify internal block sizes, cache characteristics, and branch points for alternative code ...

Keywords: GEMM-based level 3 BLAS, blocked algorithms, matrix-matrix kernels, memory hierarchy, parallelization, vectorization

5 Algorithm 783: Pcp2Nurb—smooth free-form surfacing with linearly trimmed bicubic B-splines

Jörg Peters

September 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(444.09 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Unrestricted control polyhedra facilitate modeling free-form surfaces of arbitrary topology and local patch-layout by allowing n-sided, possibly nonplanar, facets and m-valent vertices. By cutting off edges and corners, the smoothing of an unrestricted control polyhedron can be reduced to the smoothing of a planar-cut polyhedron. A planar-cut polyhedron is a generalization of the well-known tensor-product control structure. The routine Pcp2 ...

Keywords: C1 surface, Matlab, NURBS, arbitrary patch layout, arbitrary surface topology, biquadratic tensor-product B-splines, free-form surface, planar-cut polyhedron, trimmed bicubic B-splines

6 Algorithm 785: a software package for computing Schwarz-Christoffel conformal transformation for doubly connected polygonal regions

Chenglie Hu

September 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(136.22 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A software package implementing Schwarz-Christoffel Conformal transformation (or mapping) of doubly connected polygonal regions is fully described in this article from mathematical, numerical, and practical perspectives. The package solves the so-called accessory parameter problem associated with the mapping function as well as evaluates forward and inverse maps. The robustness of the package is reflected by the flexibility in choosing the accuracy of the parameters to be computed, the spee ...

Keywords: Schwarz-Christoffel conformal transformation, accessory parameters, doubly connected region, numerical conformal mapping, system of nonlinear equations

7 Algorithm 782: codes for rank-revealing QR factorizations of dense matrices

C. H. Bischof, G. Quintana-Ortí

June 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(78.16 KB) Additional Information: full citation, abstract, references, index terms, review

This article describes a suite of codes as well as associated testing and timing drivers for computing rank-revealing QR (RRQR) factorizations of dense matrices. The main contribution is an efficient block algorithm for approximating an RRQR factorization, employing a windowed version of the commonly used Golub pivoting strategy and improved versions of the RRQR algorithms for triangular matrices orginally suggersted by Chandrasekaran and Ipsen and by Pan and Tang, respectively, We highligh ...

Keywords: block algorithm, numerical rank, rank-revealing QR factorization

8 Algorithm 780: exponential pseudorandom distribution

Kenneth G. Hamilton

March 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(60.33 KB) Additional Information: full citation, abstract, references, index terms, review

An algorithm is presented for the calculation of exponentially distributed random numbers. It is based on mathematics that was published by Ahrend and Dieter, but some errors have been corrected.

Keywords: exponential distribution, pseudorandom numbers, random numbers

9 Algorithm 779: Fermi-Dirac functions of order -1/2, 1/2, 3/2, 5/2

Allan J. MacLeod

March 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(126.96 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The computation of Fermi-Dirac integrals *** is discussed for the values *** = -1, 1/2, 3/2, 5/2. We derive Chebyshev polynomial expansions which allow the computation of these functions to double precision IEEE accuracy.

Keywords: Chebyshev polynomials, Fermi-Dirac, collocation, floating-point arithmetic

10 Algorithm 778: L-BFGS-B: Fortran subroutines for large-scale bound-constrained optimization

Ciyou Zhu, Richard H. Byrd, Peihuang Lu, Jorge Nocedal
December 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 4
Publisher: ACM Press

Full text available: pdf(109.72 KB) Additional Information: full citation, abstract, references, citings, index terms, review

L-BFGS-B is a limited-memory algorithm for solving large nonlinear optimization problems subject to simple bounds on the variables. It is intended for problems in which information on the Hessian matrix is difficult to obtain, or for large dense problems. L-BFGS-B can also be used for unconstrained problems and in this case performs similarly to its predessor, algorithm L-BFGS (Harwell routine VA15). The algorithm is implemented in Fortran 77.

Keywords: large-scale optimization, limited-memory method, nonlinear optimization, variable metric method

11 Algorithm 777: HOMPACK90: a suite of Fortran 90 codes for globally convergent homotopy algorithms

Layne T. Watson, Maria Sosonkina, Robert C. Melville, Alexander P. Morgan, Homer F. Walker
December 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 4
Publisher: ACM Press

Full text available: pdf(254.59 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: Chow-Yorke algorithm, curve tracking, fixed point

12 Algorithm 776: SRRIT: a Fortran subroutine to calculate the dominant invariant subspace of a nonsymmetric matrix

Z. Bai, G. W. Stewart
December 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 4
Publisher: ACM Press

Full text available: pdf(157.18 KB) Additional Information: full citation, abstract, references, index terms, review

SRRT is a Fortran program to calculate an approximate orthonomral basis fr a dominant invariant subspace of a real matrix A by the method of simultaneous iteration. Specifically, given an integer m, SRRIT computes a matrix Q with m orthonormal columns and real quasi-triangular matrix T or order m such that the equation AQ = QT is satisfied up to a tolerance specified by the ...

Keywords: invariant subspace, nonsymmetric eigenvalue problem, project method

13 Algorithm 775: the code SLEUTH for solving fourth-order Sturm-Liouville problems

Leon Greenberg, Marco Marletta
December 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(279.52 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe a new code (SLEUTH) for numerical solution of regular two-point fourth-order Sturm-Liouvlle eigenvalue problems. Eigenvalues are computed according to index: the user specifies an integer k***0, and the code computes an approximation to the kth eigenvalue. Eigenfunctions are also avialable through an auxiliary routine, called after the eigenvalue has been determined. The code will be made available through netlib.

Keywords: SLEUTH

14 Algorithm 770: BVSPIS—a package for computing boundary-valued shape-preserving interpolating splines

P. Costantini

June 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(49.40 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article describes a software package for computing interpolating polynomial splines with arbitrary constraints on their shape and satisfying separable or nonseparable boundary conditions.

Keywords: Bernstein-Be´zier polynomials, dynamic programming, spline interpolation

15 Algorithm 768: TENSOLVE: a software package for solving systems of nonlinear equations and nonlinear least-squares problems using tensor methods

Ali Bouaricha, Robert B. Schnabel

June 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(163.08 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article describes a modular solftware package for solving systems of nonlinear equations and nonlinear problems, using a new class of methods called tensor methods. It is intended for small- to medium-sized problems, say with up to 100 equations and unknowns, in cases where it is reasonable to calculate the Jacobian matrix or to approximate it by finite differences at each iteration. The software allows the user to choose between a tensor method and a standard method based on a linear ...

Keywords: nonlinear equations, nonlinear least squares, rank-deficient matrices, tensor methods

16 Algorithm 765: STENMIN--a software package for large, sparse unconstrained optimization using tensor methods

Ali Bouaricha

March 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(365.66 KB) Additional Information: full citation, references, index terms, review

Keywords: large-scale optimization, rank-deficient matrices, sparse problems, tensor

methods

17 Algorithm 764: Cubpack++: a C++ package for automatic two-dimensional cubature
Ronald Cools, Luc Pluym, Dirk Laurie
March 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 1
Publisher: ACM Press

Full text available: pdf(354.39 KB) Additional Information: full citation, abstract, references, citings, index terms, review

In this article, software for the numerical approximation of double integrals over a variety of regions is described. The software was written in C++. Classes for a large number of shapes are provided. A global adaptive integration algorithm is used based on transformations and subdivisions of regions.

Keywords: automatic integration, cubature, planar regions

18 Algorithm 763: INTERVAL_ARITHMETIC: a Fortran 90 module for an interval data type
R. Baker Kearfott
December 1996 **ACM Transactions on Mathematical Software (TOMS)**, Volume 22 Issue 4
Publisher: ACM Press

Full text available: pdf(342.78 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Interval arithmetic is useful in automatically verified computations, that is, in computations in which the algorithm itself rigorously proves that the answer must lie within certain bounds. In addition to rigor, interval arithmetic also provides a simple and sometimes sharp method of bounding ranges of functions for global optimization and other tasks. Convenient use of interval arithmetic requires an interval data type in the programming language. Although various package ...

Keywords: interval arithmetic, operator overloading, portability

19 Algorithm 762; LLDRLF, log-likelihood and some derivatives for log-F models
Barry W. Brown, Lawrence B. Levy, James Lovato, Kathy Russell, Floyd M. Spears
September 1996 **ACM Transactions on Mathematical Software (TOMS)**, Volume 22 Issue 3
Publisher: ACM Press

Full text available: pdf(333.78 KB) Additional Information: full citation, abstract, references, index terms, review

The flexible statistical models incorporating the log-F distribution are little used because of numeric difficulties. We describe a method for calculating the log-likelihood and two derivatives with respect to the data argument. Fortran subroutines incorporating these calculations are provided.

Keywords: accelerated failure, log-F distribution, log-likelihood

20 Algorithm 759: VLUGR3: a vectorizable adaptive-grid solver for PDEs in 3D—Part II. code description
J. G. Blom, J. G. Verwer

September 1996 **ACM Transactions on Mathematical Software (TOMS)**, Volume 22 Issue 3
Publisher: ACM Press

This article describes an ANSI Fortran 77 code, VLUGR3, autovectorizable on the Cray Y-MP, that is based on an adaptive-grid finite-difference method to solve time-dependent three-dimensional systems of partial differential equations.

Keywords: adaptive-grid methods, iterative solvers, method of lines, nonsymmetric sparse linear systems, partial differential equations, software, vectorization

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